Mohamadreza Hagh, Joh	ddress and citizensh nn Proakis and Ma	nat: nip are as stated below next to asoud Salehi of the subject m EEDBACK ADAPTIVE EQU	atter which is claime	ed and for wh	nich a pater	joint inventor with nt is sought on the	
(check one) [X] is attached hereto.		Application Seri	[ ] was filed on Application Serial No and was amended on				
I hereby state that I have re amendment referred to abo		and the contents of the above	identified specification	on, including	g the claim	s, as amended by an	ıy
I acknowledge the duty to opart applications, material international filing date of	information which b	which is material to patentab became available between the part application:	ility as defined in 37 filing date of the price	CFR 1.56, is application	ncluding for and the n	or continuation-in- ational or PCT	
rights certificate(s), or 365	(a) of any PCT inter have also identified	35 U.S.C. 119(a)-(d) or (f) of a mational application which de below, by checking the box, application having a filing date	signated at least one any foreign application	country othe on for patent	r than the , inventor's	United States of sor plant breeder's	
Prior Foreign Ap	plications		<u>Priority</u>	y Claimed	Certific	ed Copy Attached	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	Yes	No	
POWER OF ATTORNEY business in the Patent and irrevocable right to prosect	Trademark Office co	tor, I hereby appoint the follo onnected therewith, and hereb	wing attorneys to pro y certify that the Go	osecute this a vernment of	pplication the United	and transact all States has the	
Michael F. Ogl		James M. Kasischke	Michael P. Sta	-			
Reg. No. 2046	4	. Reg. No. 36562	Reg. No. 47108	3			
SEND CORRESPONDENCE TO:		DIRE	CT TELEPHONE C.	ALLS TO:			
Office Of Counsel, Bldg 112T Naval Undersea Warfare Center		JAMES M. KASISCHKE					
Division, Newport		(401) 832-4736					
1176 Howell Street Newport, RI 02841-17	08						
believed to be true; and fur punishable by fine or impr	rther that these state isonment, or both, u	in of my own knowledge are to ements were made with the knowner Section 1001 of Title 18 or any patent issued thereon.	owledge that willful	false stateme	ents and the	e like so made are	ts
Full name of first inventor	: FLETCHER A.	BLACKMON					
Inventor's signature				Date:			
Residence: FORESTDA		SETTS					

John Proakis, Masoud Sa	ddress and citizensl	hip are as stated below next to read the control of the subject related by the subject rela	natter which is claime	ed and for v	which a pa	joint inventor with tent is sought on the
(check one) [X]	is attached hereto.	Application Seria	a: I No a: on	5		
I hereby state that I have re amendment referred to abo		tand the contents of the above ic	dentified specification	ı, including	the claim	s, as amended by any
I acknowledge the duty to part applications, material international filing date of	information which l	n which is material to patentabi became available between the fi -part application:	ity as defined in 37 C ling date of the prior	CFR 1.56, in application	ncluding for and the n	or continuation-in- ational or PCT
rights certificate(s), or 365	(a) of any PCT intended have also identified	35 U.S.C. 119(a)-(d) or (f) of au rnational application which des I below, by checking the box, au pplication having a filing date b	ignated at least one co ny foreign application	ountry other for patent	r than the , inventor'	United States of sor plant breeder's
Prior Foreign Ap	plications		Priority (	Priority Claimed		ed Copy Attached
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	Yes	No
POWER OF ATTORNEY business in the Patent and irrevocable right to prosect Michael F. Ogl	Trademark Office of the court o	ntor, I hereby appoint the follow connected therewith, and hereby James M. Kasischke	ring attorneys to prose certify that the Gove Michael P. Stanl	rnment of	application the United	and transact all States has the
Reg. No. 2046		Reg. No. 36562	Reg. No. 47108	•		
SEND CORRESPONDEN Office Of Counsel, Blo		DIREC	T TELEPHONE CA	LLS TO:		
Naval Undersea Warfa Division, Newport 1176 Howell Street Newport, RI 02841-17	re Center		S M. KASISCHKE 832-4736	1		
believed to be true; and fu punishable by fine or impr	rther that these state isonment, or both,	ein of my own knowledge are treements were made with the knounder Section 1001 of Title 18 or any patent issued thereon.	wledge that willful fa	lse stateme	ents and the	e like so made are
Full name of second inven	tor: MOHANAD	REZA M. HAGH				
Inventor's signature	·			Date:		
Residence: BELMONT, Citizenship: U.S.A. Post Office Address: 20-2		TTS r, belmont, ma 02478				

As a below named inventor, I hereby declare that:

Masoud Salehi, Fletche	er A. Blackmon a	ship are as stated below next to and Mohamadreza M. Hagh of DECISION FEEDBACK AD.	f the subject matter w	hich is clai	med and fe	or whicl	n a patent is
(check one) [X	is attached hereto.	[] was filed on _ Application Serie and was amended	al No	s			
I hereby state that I have a amendment referred to ab		stand the contents of the above	identified specification	n, including	g the claim	s, as am	ended by any
I acknowledge the duty to part applications, material international filing date of	information which	on which is material to patentab became available between the a-part application:	ility as defined in 37 C filing date of the prior	CFR 1.56, i application	ncluding f	or conti ational	nuation-in- or PCT
rights certificate(s), or 36: America, listed below and	5(a) of any PCT into have also identified	35 U.S.C. 119(a)-(d) or (f) of a crnational application which ded below, by checking the box, application having a filing date	signated at least one co my foreign application	ountry other	r than the , inventor'	United a	States of nt breeder's
Prior Foreign A	pplications		Priority (	Claimed	Certified Copy Att		Attached
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	Yes	No	
POWER OF ATTORNEY business in the Patent and irrevocable right to prosec	Trademark Office	ntor, I hereby appoint the follow connected therewith, and hereby:	wing attorneys to proso y certify that the Gove	ecute this a	pplication the United	and tra	nsact all nas the
Michael F. Og Reg. No. 2046		James M. Kasischke Reg. No. 36562	Michael P. Stanl Reg. No. 47108	ey			
SEND CORRESPONDE Office Of Counsel, B		DIREC	DIRECT TELEPHONE CALLS TO:				
Naval Undersea Warf Division, Newport 1176 Howell Street Newport, RI 02841-1	are Center		ES M. KASISCHKE 832-4736				·
believed to be true; and for punishable by fine or imp	irther that these stat risonment, or both,	ein of my own knowledge are trements were made with the knownder Section 1001 of Title 18 or any patent issued thereon.	wledge that willful fa	lse stateme	nts and the	e like so	made are
Full name of third inventor	or: JOHN PROAI	KIS			•		
Inventor's signature		Date:					
Residence: ANDOVER Citizenship: U.S.A. Post Office Address: 9 Ct						7	

As a below named inventor, I hereby declare the My residence, post office address and citizenship Fletcher A. Blackmon, Mohamadreza M. I sought on the invention entitled: ITERATIVE I	p are as stated below next to Hagh and John Proakis of	he subject matter which is c	laimed and for	which a patent is			
(check one) [X] is attached hereto.	Application Seri	al Noas d on		·			
I hereby state that I have reviewed and understa amendment referred to above.	nd the contents of the above	identified specification, incl	uding the claim	s, as amended by any			
I acknowledge the duty to disclose information part applications, material information which be international filing date of the continuation-in-p	came available between the						
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's right certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:							
Prior Foreign Applications		Priority Claime	ed Certific	ed Copy Attached			
(Number) (Country)	(Day/Month/Year Filed)	Yes No	Yes	No			
POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and hereby certify that the Government of the United States has the irrevocable right to prosecute this application:							
Michael F. Oglo	James M. Kasischke	Michael P. Stanley					
Reg. No. 20464	Reg. No. 36562	Reg. No. 47108					
SEND CORRESPONDENCE TO:	DIREC	CT TELEPHONE CALLS T	O:				
Office Of Counsel, Bldg 112T Naval Undersea Warfare Center	JAME	ES M. KASISCHKE					
Division, Newport	(401)	832-4736					
1176 Howell Street Newport, RI 02841-1708							
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
Full name of fourth inventor: MASOUD SAI	EHI						
Inventor's signature		Date	:	<del></del>			

Residence: WESTWOOD, MASSACHUSETTS

Citizenship: U.S.A.
Post Office Address: 40 ENDICOTT STREET, WESTWOOD, MA 02090